

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 11-041159

(43)Date of publication of application : 12.02.1999

(51)Int.Cl.

H04B 7/15

H04B 1/10

H04J 1/00

(21)Application number : 09-190067

(71)Applicant : NIPPON TELEGR & TELEPH CORP  
<NTT>

(22)Date of filing : 15.07.1997

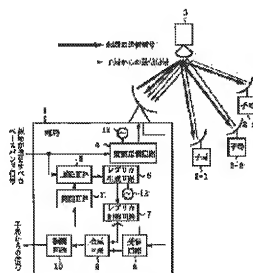
(72)Inventor : SUGIYAMA TAKATOSHI  
UMEHIRA MASAHIRO  
KAZAMA HIROSHI

## (54) COMMUNICATION EQUIPMENT

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To efficiently remove interference without deteriorating the transmission quality of a signal from a slave station by branching and delaying a base band signal to be used at the time of transmission, and generating the replica of the transmission signal of a master station without any error.

**SOLUTION:** A master station 1 is provided with a replica generating circuit 6 for generating the transmission signal replica of its own station. Then, a synthesizing circuit 9 anti-phase synthesizes the replica of the transmission signal of its own station with a signal received by a receiving circuit 8, eliminates the transmission signal of its own station, and extracts the transmission signals of slave stations 2-1 to 2-n. This master station 1 is provided with a delay circuit 5 as a means for delaying a base band signal outputted to the modulation input of



its own station, and the replica generating circuit 6 generates the replica of the transmission of the master station 1 from the output signal of the delay circuit 5. Moreover, this master station 1 includes a synchronizing circuit 11 as a means for reading the signal delayed by the delay circuit 5 synchronously with the output of the receiving circuit 8.